IN THE CLAIMS

Please cancel claim 33 without prejudice to Applicants' right to pursue the subject matter of this claim in a future application. Please amend claims 31, 36-39 and 44-47 as follows:

- 31. (CURRENTLY AMENDED) A synthetic soluble peptide made by solid phase synthesis comprising all or a fragment or variant of a regulatory virus protein R (Vpr) of the human immunodeficiency virus type 1(HIV-1) (SEQ ID NO: 1), or a fragment or variant thereof, wherein the fragment or variant thereof consists of a peptide selected from the group consisting of:
 - (a) a 20 amino acid Vpr protein (sVpr¹⁻²⁰ or sVpr²¹⁻⁴⁰; SEQ ID NO: 8 and 9, respectively);
 - (b) a 47 amino acid N-terminal peptide (sVpr1-47; SEQ ID NO: 2);
 - (c) a 49 amino acid long C-terminal peptide (Npr48-96; SEQ ID NO: 3); ex
 - (d) a fragment of at least 15 amino acids of any one of (a)-(c)

 Nor 11-25 (SEQ ID NO: 4); or
 - (e) JVpr46-60 (SEQ ID NO: 6).
- 32. (PREVIOUSLY PRESENTED) The synthetic peptide of claim 31, consisting of sVpr¹⁻⁹⁶ (SEQ ID NO: 1).
 - (CANCELLED)
- 34. (PREVIOUSLY PRESENTED) The synthetic peptide of claim 31 bound to a second molecule, wherein the second molecule comprises a DNA or protein molecule.
- 35. (PREVIOUSLY PRESENTED) The synthetic peptide of claim 32 bound to a second molecule, wherein the second molecule comprises a DNA or protein molecule.

- 36. (CURRENTLY AMENDED) A pharmaceutical composition comprising the synthetic peptide of claim 31 and a pharmaceutically acceptable carrier.
- 37. (CURRENTLY AMENDED) A pharmaceutical composition comprising the synthetic peptide of claim 32 and a pharmaceutically acceptable carrier.
- 38. (CURRENTLY AMENDED) A pharmaceutical composition comprising the synthetic peptide of claim 34 and a pharmaceutically acceptable carrier.
- 39. (CURRENTLY AMENDED) A pharmaceutical composition comprising the synthetic peptide of claim 35 and a pharmaceutically acceptable carrier.
- 40. (WITHDRAWN) A method of producing synthetic peptides derived from the regulatory virus protein R (Vpr) of HIV-1, the method comprising:
 - (a) synthesizing C-terminal Vpr peptides on a serine resin; and
- (b) synthesizing N-terminal Vpr peptides on a polystyrene polyoxyethylene resin; wherein chain elongation of the peptides is performed using fluoromethyloxycarbonyl (FMOC) protection.
 - 41. (WITHDRAWN) The method of claim 40, further comprising:
- (c) cleaving protection groups using a cleavage mixture comprising 95% trifluoracetic acid (TFA), 3% triisopropylsilane and 2-5% ethyandithiol.
- 42. (WITHDRAWN) The method of claim 40, further comprising purifying the peptides by HPLC on a column of silica gel using a linear gradient of TFA and water in acetonitrile.
 - 43. (WITHDRAWN) A synthetic Vpr peptide produced by the method of claim 40.

- 44. (CURRENTLY AMENDED) A biological assay system product comprising a synthetic peptide of claim 31 immobilized on a substrate.
- 45. (CURRENTLY AMENDED) A biological assay system product comprising a peptide of claim 32 immobilized on a substrate.
- 46. (CURRENTLY AMENDED) The biological assay system product of claim 44, which comprises an ELISA wherein the substrate comprises an ELISA carrier surface.
- 47. (CURRENTLY AMENDED) The biological assay system product of claim 45, which comprises an ELISA wherein the substrate comprises an ELISA carrier surface.